

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
Δ					Δ				
Δ					Δ				
Δ					Δ				

APPLICABLE STANDARD			
OPERATING TEMPERATURE RANGE	-40 °C TO 85 °C (1)	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (2)
VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %
CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % (2)

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

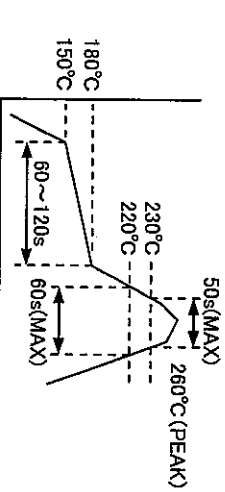
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	20 mV MAX. 1 mA (DC OR 1000Hz)	60 mΩ MAX. (3)	X	
INSULATION RESISTANCE	100 V DC	500 MΩ MIN	X	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	

MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 18.6 N MAX. WITHDRAWAL FORCE: 1.55 N MIN.	X	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 80 mΩ MAX.(3) ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS	X	
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTION.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 80 mΩ MAX.(3)	X	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55→+15→+35→+85→+15→+35°C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	X	
SULFUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS-C-0090)		X	

RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : REFLOW 2 TIMES UNDER THE TEMPERATURE PROFILE SHOWN BELOW.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	
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SOLDERABILITY	2) SOLDERING IRONS : 360 °C MAX. FOR 5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	X	
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REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
(1) INCLUDE TEMPERATURE RISE OF CURRENT CARRYING. (2) "STORAGE" MEANS LONG-TERM STORAGE STATE BEFORE ASSEMBLY TO PCB. (3) INCLUDE CONDUCTOR RESISTANCE OF CABLE IN CASE THE MATED CONNECTOR IS CABLE TYPE. (L=12mm) Unless otherwise specified, refer to JIS C 5402.	<i>R. Strubbe</i>	<i>R. Strubbe</i>	<i>R. Strubbe</i>	<i>H. Skarv</i>	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test	05.02.10	05.02.10	05.02.14	05.22.14	

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO.	FX15-31S-0.5SV
CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4 - 155329		CL 575-2201-7